

MTP® 24 Fibres Ferrule Cable Assemblies

MTP/MPO 24 fibre cable assemblies designed and manufactured for 40/100G parallel optics network infrastructure. These assemblies can be used directly with CFP/CXP 100G transceivers or they can be combined with transition LC modules and provide 100G compatibility for 40G QSFP+ transceivers. They are offered with 3mm (patch lead) or 4.5mm cable (micro cable) options. Due to their small and compact size, they offer improved cable management and they are an ideal solution for high density applications.

Applications

- Data Centres
- Parallel optics (40 and 100G) applications
- InfiniBand
- Storage Area Network - Fibre Channel

Features

- Available with OS1/2, OM3, OM4 or OM5 fibre
- 24 Cores MicroCable Trunks (Double Jacket 4.5mm OD) and Patchleads (Single Jacket 3mm OD)
- Option for LSZH, OFNR, OFNP cable jackets
- Female/Un-Pinned and Male/ Pinned MTP® connectors
- Options for A, B or C polarity
- Universal internal/external Loose Tube and MicroCable Available
- 100% Factory terminated and tested
- 40/100G Parallel Optics compatible
- Compact ruggedized assembly ideal for high density applications
- Saves installation and reconfiguration time

Specifications

ELEMENT	CHARACTERISTIC
Fibre	OS1/OS2 – G.652D, G.657A1, OM1, OM2, OM3, OM4, OM5
MTP Terminations	MTP® 24 Fibre Ferrule US Conec Boot Colour: Black Body Sleeve Colour: MM (Beige), MM Elite (Aqua), Lime Green (OM5), SM (Green)
Cable Diameter	Micro Cable Trunk Max OD 24 cores 4.2 ± 0.3mm Patchlead Max OD 24 cores 2.9 ± 0.1mm
Crush Resistance	Double Jacket Micro Cable: 1000N/100mm Single Jacket Micro Cable: 500N/100mm
Cable Tensile Strength	Double Jacket Micro Cable (24 Core) (Short/Long) 300N/160N Single Jacket Micro Cable (24 Core) (Short/Long) 200N/60N
Cable Strength Member	Aramid
Storage Temperature	-20 ~ +70°C
Installation Temperature	0 ~ +50°C
Operating Temperature	-20 ~ +70°C
Pulling Element	Rope Attached to Aramid

Connector Performance

CONNECTOR MATING	IL AVERAGE	IL MAX	RETURN LOSS
MTP® Elite (MM)	0.10dB	0.35dB	N/A
MTP® (MM)	0.20dB	0.35dB	N/A
MTP® Elite (SM)	0.10dB	0.35dB	>60dB
MTP® (SM)	0.25dB	0.75dB	>60dB

Cable Performance

Fibre Type (ISO/IEC 11801)	OS1/OS2	OM1	OM2	OM3	OM4	OM5
Attenuation Coefficient (dB/km)	≤ 0.50 Max (1310nm) ≤ 0.40 Max (1550nm) ≤ 0.36 Typ (1310nm) ≤ 0.22 Typ (1550nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm) ≤ 3.0 Typ (850nm) ≤ 1.0 Typ (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm) ≤ 3.0 Typ (850nm) ≤ 1.0 Typ (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm) ≤ 3.0 Typ (850nm) ≤ 1.0 Typ (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm) ≤ 3.0 Typ (850nm) ≤ 1.0 Typ (1300nm)	≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm) ≤ 3.0 Typ (850nm) ≤ 1.0 Typ (1300nm)
Minimum Bandwidth: Overfilled Launch (Mhz-km)	N/A	≥ 200 (850nm) ≥ 500 (1300nm)	≥ 500 (850nm) ≥ 500 (1300nm)	≥ 1500 (850nm) ≥ 500 (1300nm)	≥ 3500 (850nm) ≥ 500 (1300nm)	≥ 3500 (850nm) ≥ 1850 (953nm) ≥ 500 (1300nm)
Minimum Bandwidth: Laser Effective Modal Bandwidth (Mhz-km)	N/A	N/A	N/A	≥ 2000 (850nm)	≥ 4700 (850nm)	≥ 4700 (850nm) ≥ 2470 (953nm)

Standards Compliance

- TIA/EIA-568-C.3 and ISO/IEC 11801
- IEC-61754-7 & EIA/TIA-604-5
- NFPA 262 (OFNP) or IEC 60332 (LSZH)
- IEC-60793

Ordering Information

TM
MTP® to MTP® trunk assembly

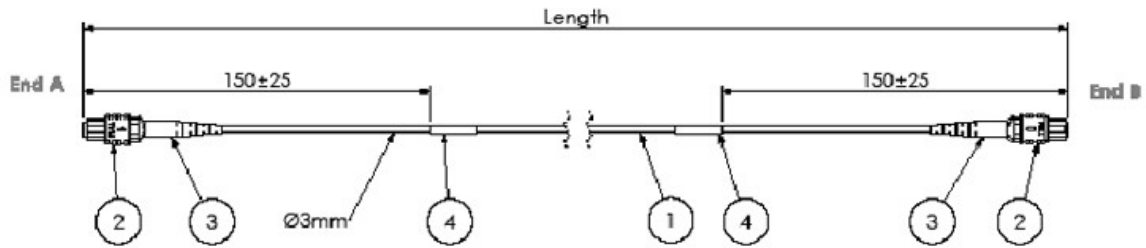
Connector A		Connector B		Fibre Type		Cable Type		Fibre Count		Length		Polarity and Extra Options	
32	MTP® Male 24F	32	MTP® Male 24F	9	G.652D	1	24 cores trunk 4.5mm OD	24	24	01	1m	A	Polarity A
34	MTP® Female 24F	34	MTP® Female 24F	A1	G.657A1	2	24 cores patch 3mm OD			02	2m	B	Polarity B
28	MTP® Male 24F Elite	28	MTP® Male 24F Elite	3	OM3					03	3m	C	Polarity C
30	MTP® Female 24F Elite	30	MTP® Female 24F Elite	4	OM4					05	5m	-	LSZH
				5	OM5					10	10m	R	OFNR
										P	OFNP
										xx	Specify	O	MPO Option

Example:

TM-28283124-70-A – MTP® male Elite to MTP® male Elite with 24 fibre ferrule trunk 4.5mm OD OM3 70m polarity A

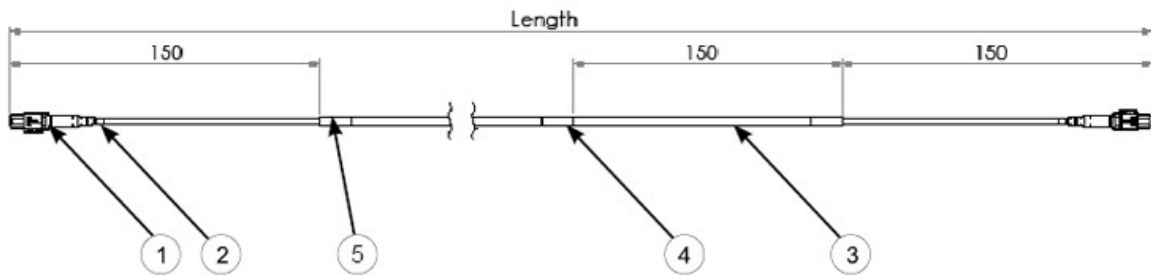
Technical Drawing

MPO/MTP® Patch Cord Assembly



1. 24 fibre Micro Cable single jacket 3mm OD
2. 24 fibre ferrule MPO/MTP®
3. 3mm MPO/MTP® connector boot
4. Serial number label

MPO/MTP® Trunk Assembly



1. 24 fibre ferrule MPO/MTP®
2. MPO/MTP® connector boot
3. 24 fibre Micro Cable double jacket 4.5mm OD
4. Serial number label
5. Heatshrink

